

Figure 1

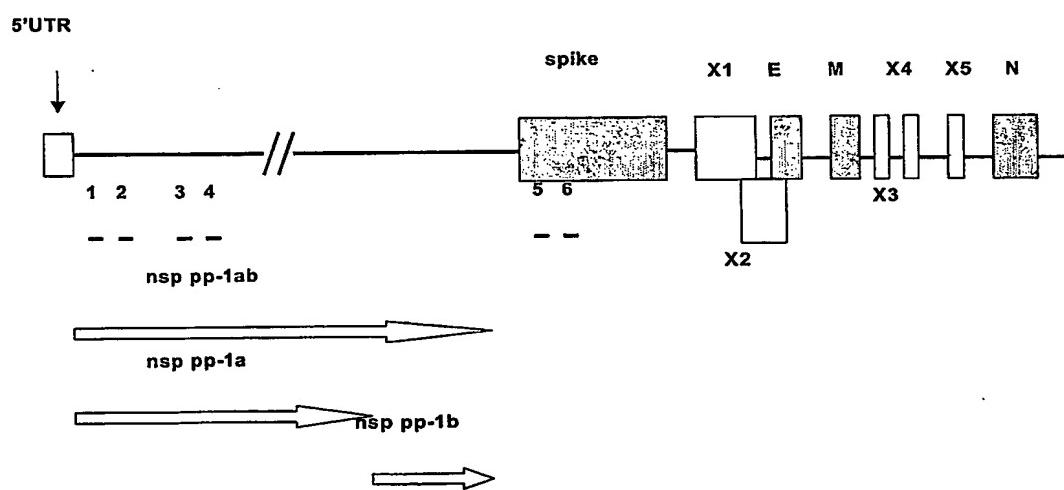
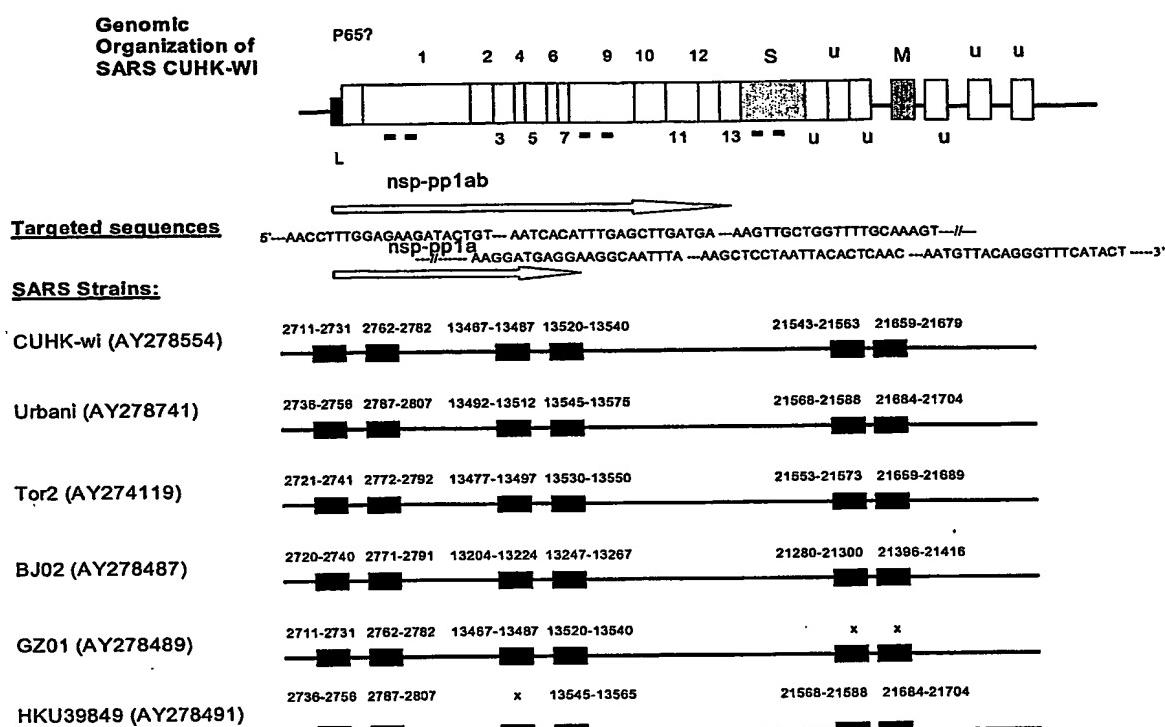
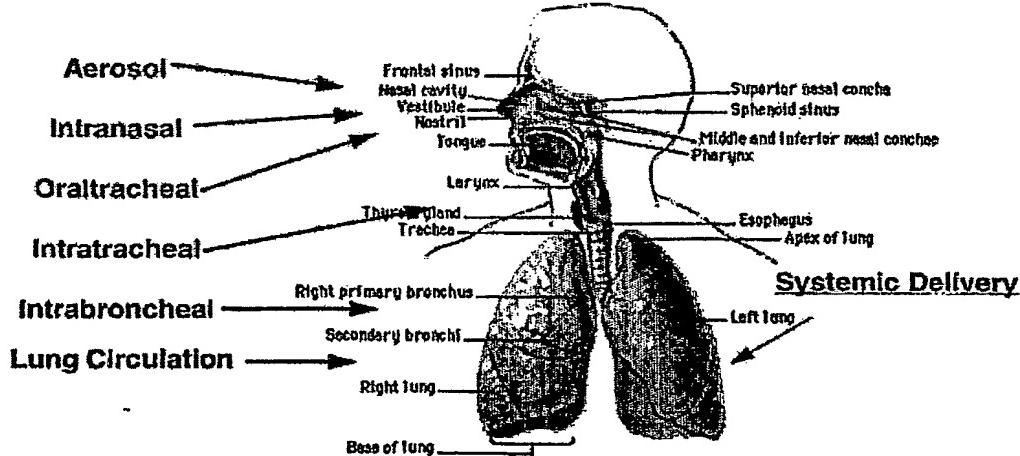


Figure 2

**Airway Delivery****Figure 4**

siRNA-Mediated Gene Knockdown in Mouse Lung by OT Delivery

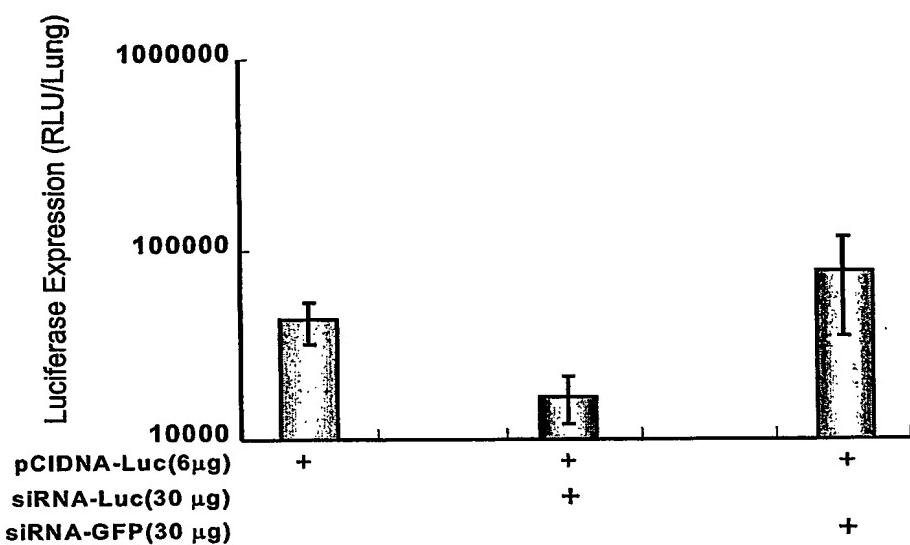
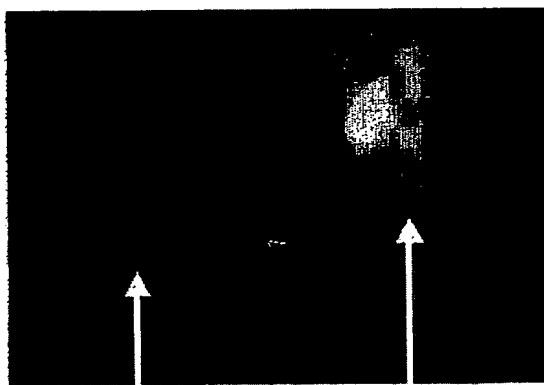
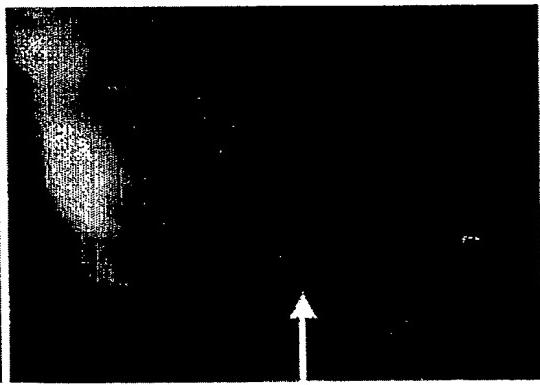


Figure 5

siRNA treated
without wash

Respiratory trachea Lung

siRNA treated
after wash

Lung

Figure 6

BEST AVAILABLE COPY

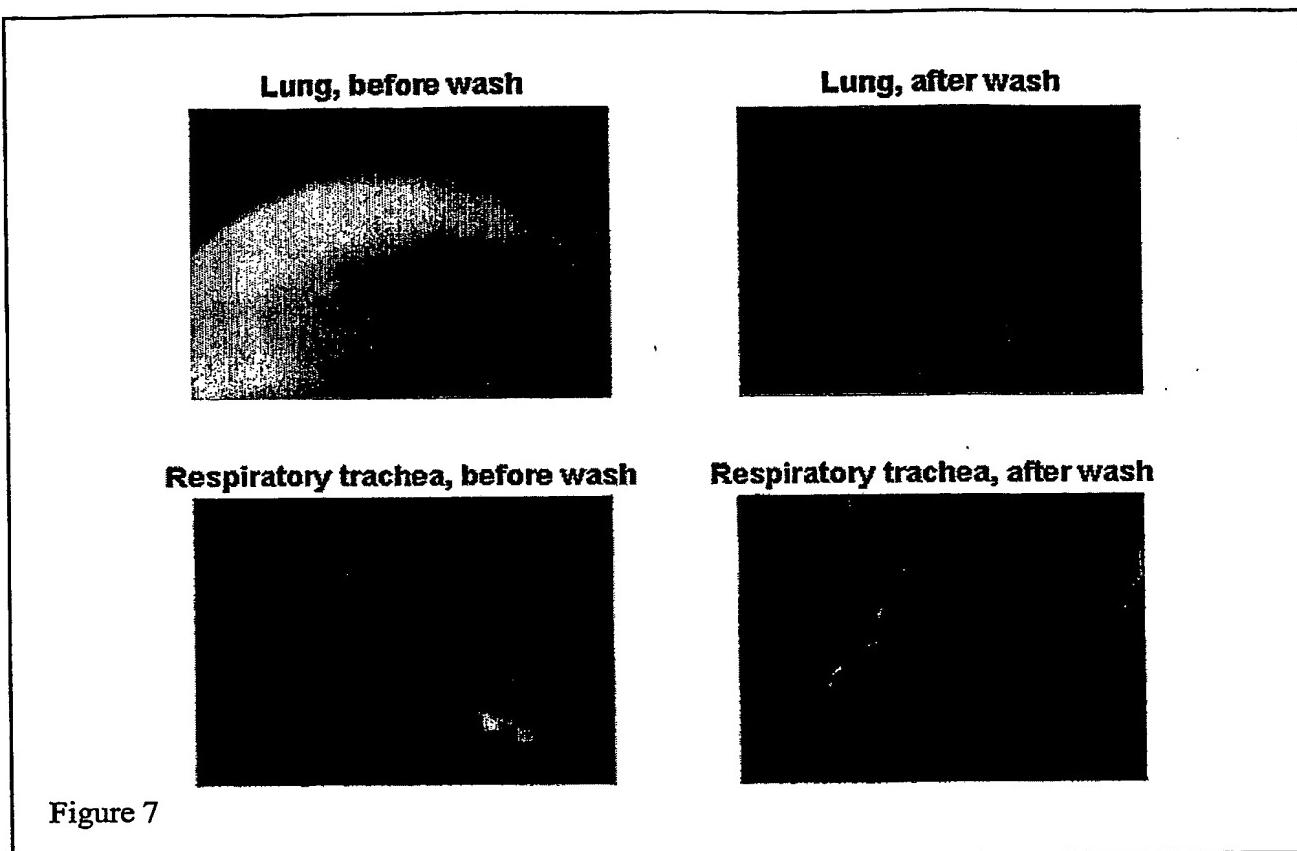


Figure 7

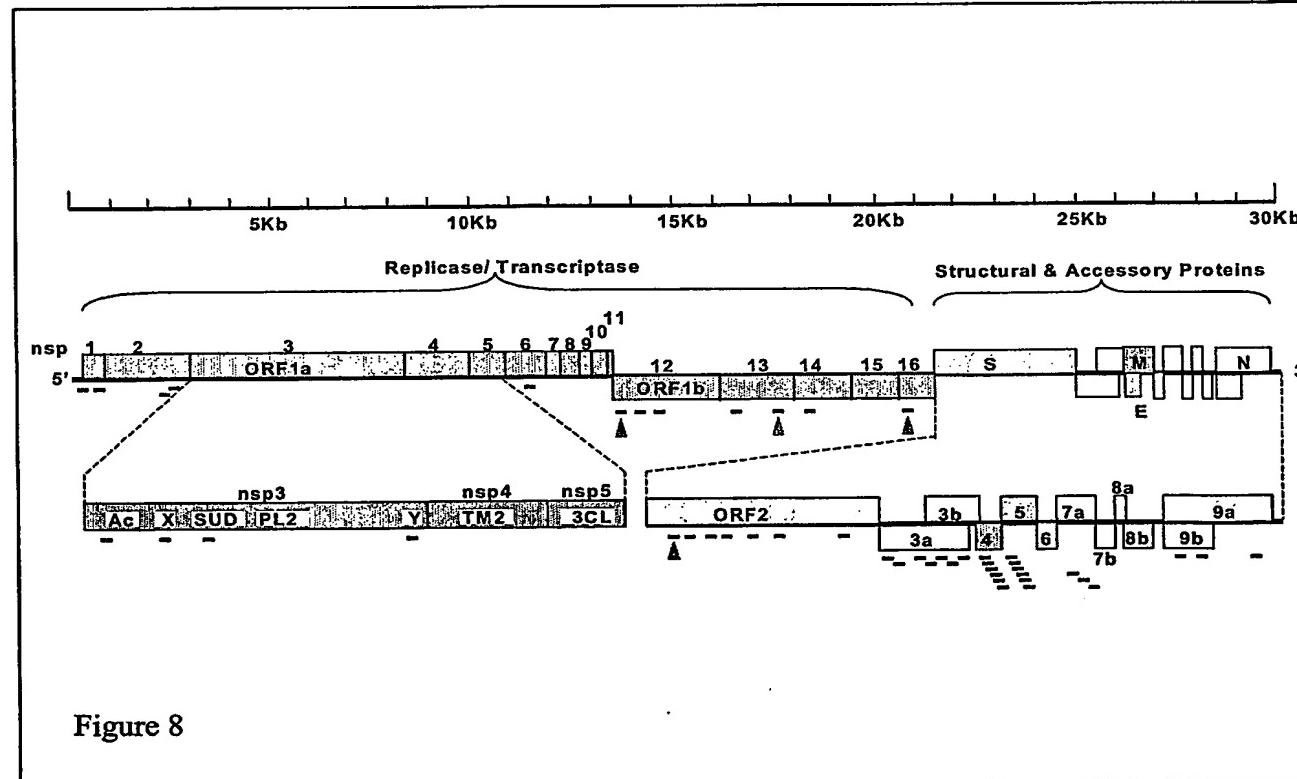


Figure 8

Figure 9

| Name | Coding Region | Position (nt) | Sequence (5'-3') |
|------|---------------|---------------|-------------------------|
| SC01 | nsp-12 | 13603-13623 | aagagactattataacttgg |
| SC02 | Spike | 21553-21573 | aagctcctaattacactcaac |
| SC03 | nsp-3 | 2772-2792 | aatcacattgagcttcatgtga |
| SC04 | Spike | 21669-21689 | aatgttacagggttcataact |
| SC05 | nsp-12 | 13530-13550 | aaggatgaggaaggcaattta |
| SC06 | nsp-3 | 2721-2741 | aaccttgagaagatactgt |
| SC07 | 5'UTR | 146-166 | aacgagtaactcgcccttctt |
| SC08 | nsp-1 | 594-614 | aattgcataccgcaatgttct |
| SC09 | nsp-3 | 3236-3256 | aacctacacccctgaagaaccag |
| SC10 | nsp-3 | 4172-4192 | aaggatgtgctggttatacac |
| SC11 | nsp-3 | 5758-5778 | aaaggaccagtgactgtatgtt |
| SC12 | nsp-3 | 8096-8116 | aagggttgttgtataccgatg |
| SC13 | nsp-6 | 11074-11094 | aagcacgcattcttgcgttgc |
| SC14 | nsp-13 | 17544-17564 | aaggataagttagctcaatgc |
| SC15 | nsp-16 | 20843-20863 | aactggcacactacttgcga |
| SC16 | nsp-12 | 14758-14778 | aactcctattcgttagttgaag |
| SC17 | nsp-13 | 16756-16776 | aagggtgactatggtgatgctg |
| SC18 | nsp-14 | 18264-18284 | aacctacccctccagcttagga |
| SC19 | Spike | 22068-22088 | aagggttatcaacctatacat |
| SC20 | Spike | 22289-22309 | aatcacagatgtgttgcatttgc |
| SC21 | Spike | 22951-22971 | aaccttacagagttgttagtac |
| SC22 | Spike | 23272-23292 | aagatgttaactgcactgtat |
| SC23 | Spike | 24871-24891 | aagagctggacaaggacttca |
| SC24 | E-protein | 26121-26141 | aagaaaacaggtaatgcgttata |
| SC25 | E-protein | 26137-26157 | aatagttaatagcgtacttct |
| SC26 | E-protein | 26219-26139 | tgtgcgtactgtgcataattt |
| SC27 | E-protein | 26307-26327 | aaggagttccctgatcttctgg |
| SC28 | M-protein | 26440-26460 | aacctagtaataggttccata |
| SC29 | M-protein | 26628-26648 | aatggcttgttattgttaggctt |
| SC30 | M-protein | 26760-26780 | aattgtgaccagaccgctcat |
| SC31 | M-protein | 26876-26896 | aagagatcactgtggctacat |
| SC32 | M-protein | 26968-26988 | aaccgctaccgtattggaaac |
| SC33 | M-protein | 26789-26809 | aaccagcttgcggccaaagtt |
| SC34 | E-protein | 26170-26190 | aagcacattgacgcataaaaa |
| SC35 | N-protein | 28904-28924 | aacagtacaacgtcactcaag |
| SC36 | E-protein | 26230-26250 | aagactgtatgcgttgcgc |
| SC37 | ORF3a | 25330-25350 | aagtactgttcatgtcagc |
| SC38 | ORF3a | 25599-25619 | aatgcataacgcgtatgttagaa |
| SC39 | ORF3a | 25618-25638 | aattattatgagatgtggct |
| SC40 | ORF3a | 25764-25784 | aaggtaacggcattcaacac |
| SC41 | ORF3a | 25805-25825 | aaattactacagacactggta |
| SC42 | ORF3a | 25929-25949 | aaaatgctacattcttcatct |
| SC43 | ORF3a | 25984-26004 | aatacacacaatcgacggctc |
| SC44 | ORF7 | 27355-27375 | aaccttgcccattcaggaaacat |
| SC45 | ORF7 | 27425-27445 | aacttgcactacgtcacacactt |
| SC46 | ORF7 | 27541-27561 | aagagcttacttcgcacttt |
| SC47 | N-protein | 28176-28196 | aactgacaataaccagaatgg |
| SC48 | N-protein | 28355-28375 | aaattggctactaccgaagag |

RETIRED AVAILABLE COPY

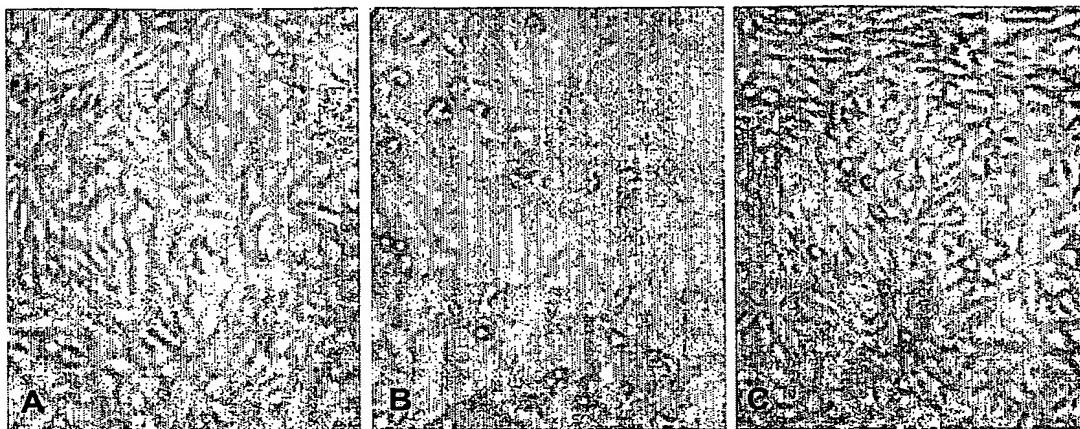


Figure 10

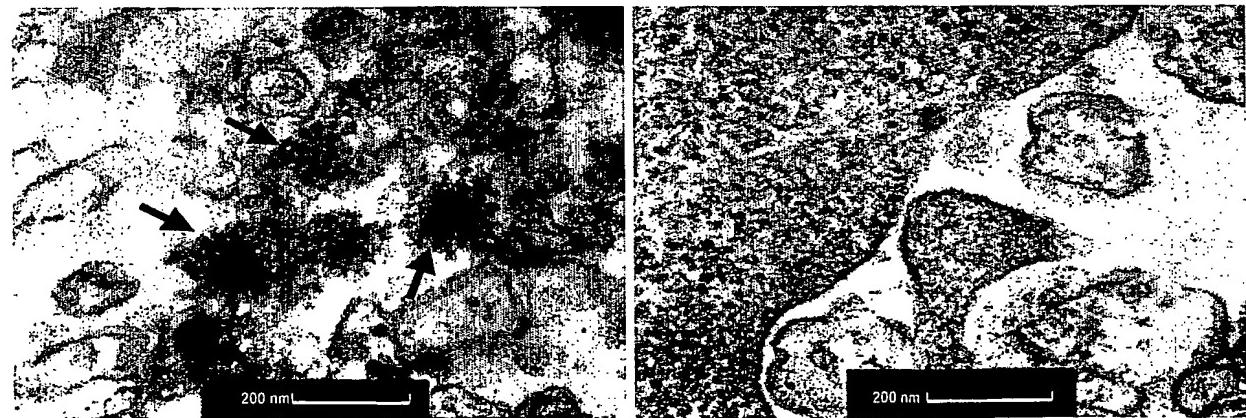


Figure 11

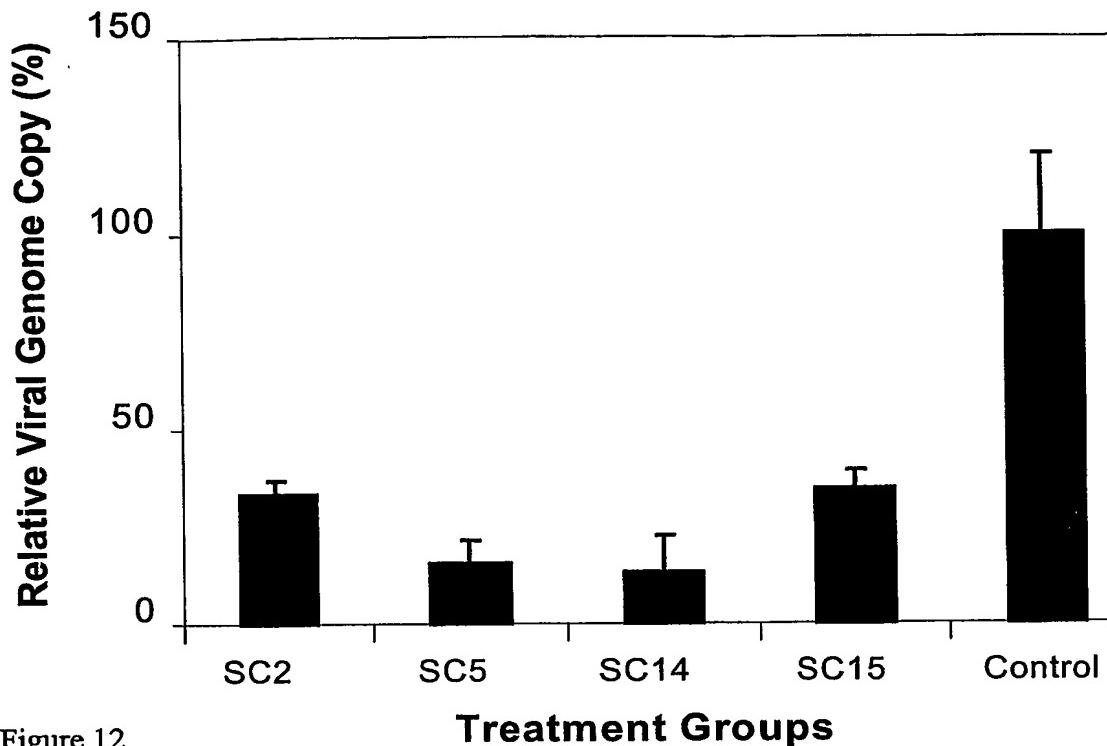


Figure 12

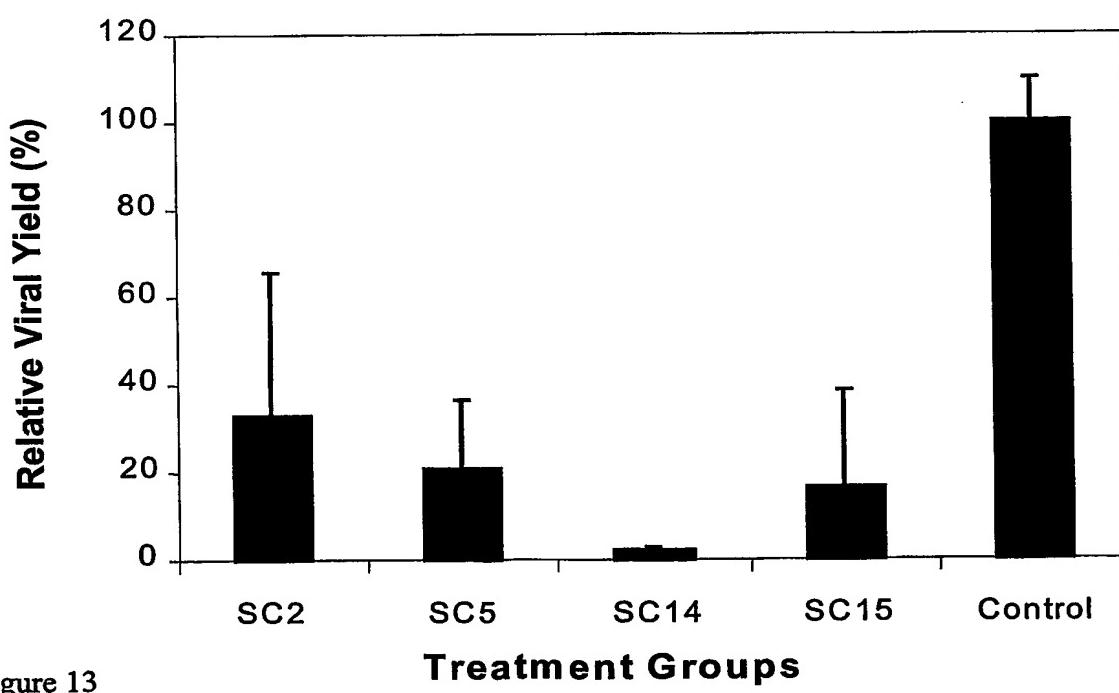


Figure 13

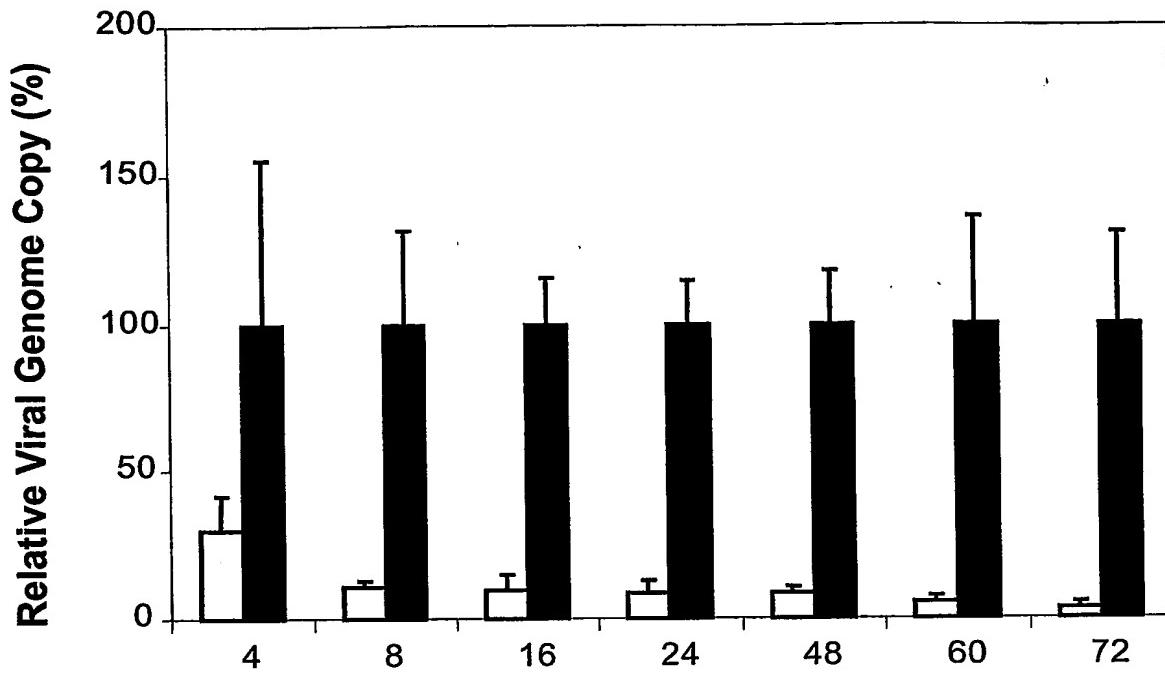


Figure 14 Time Intervals between Transfection/Infection (hr)

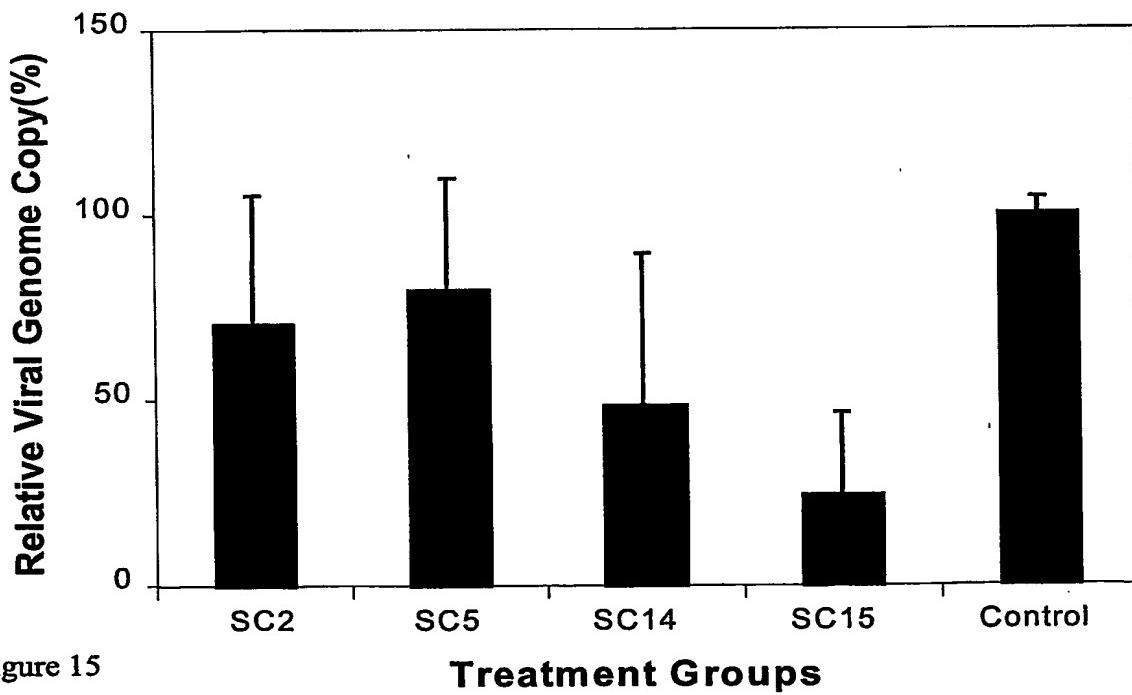


Figure 15

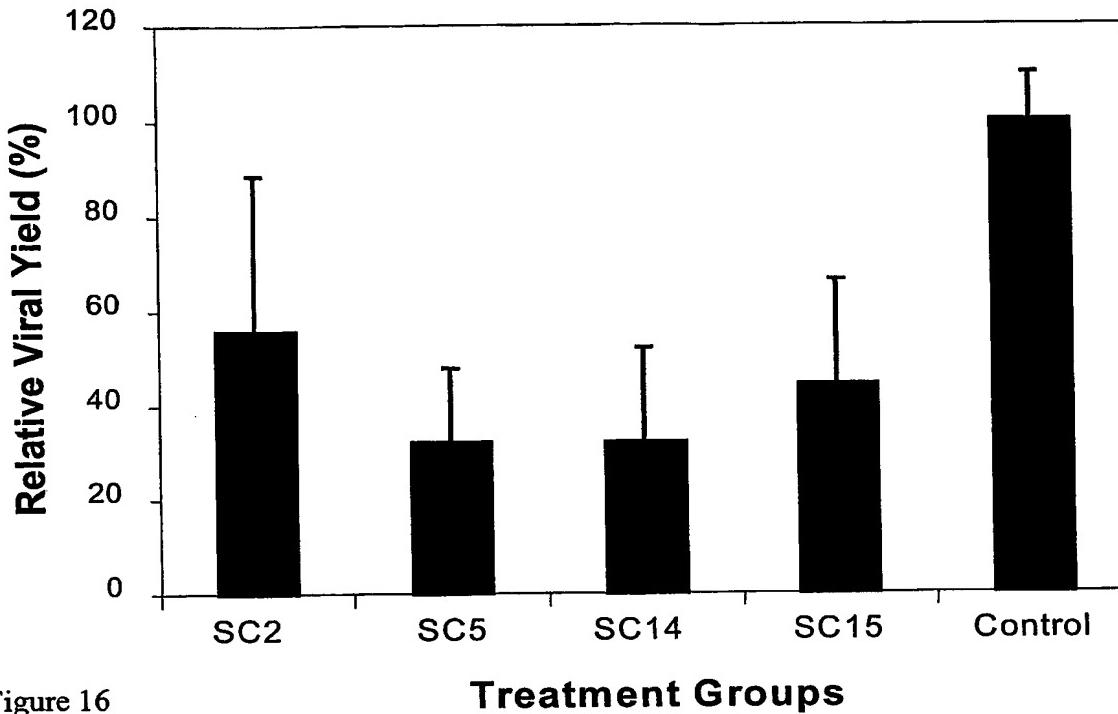


Figure 16

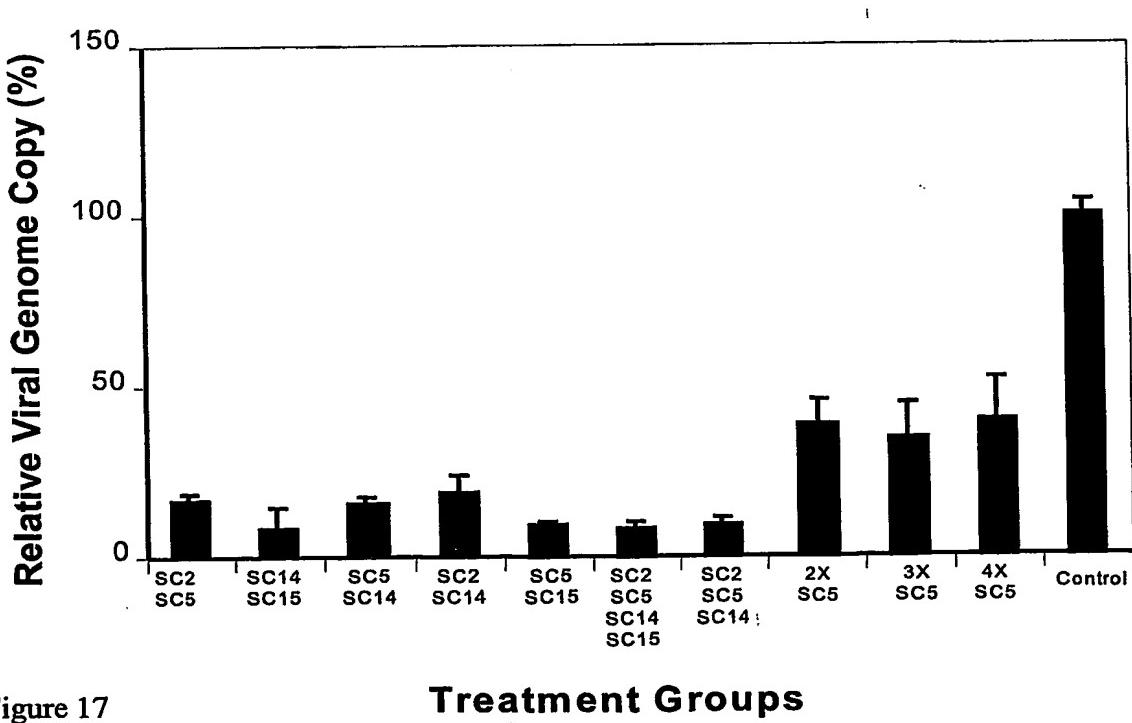


Figure 17

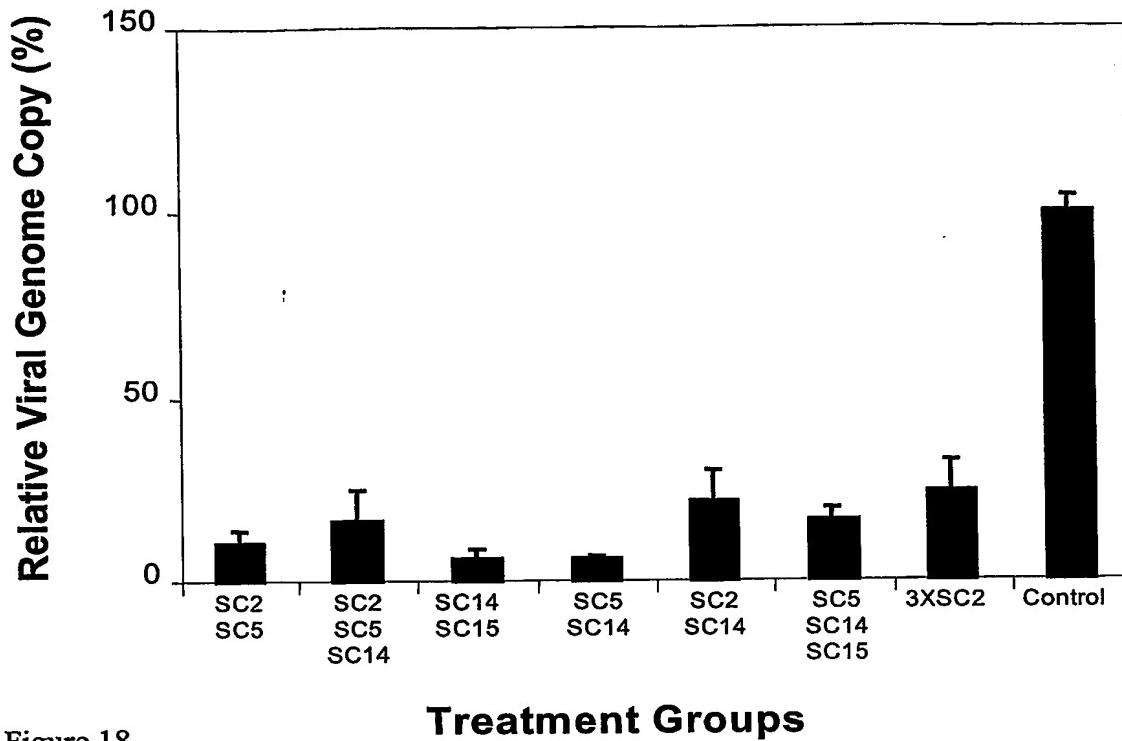


Figure 18

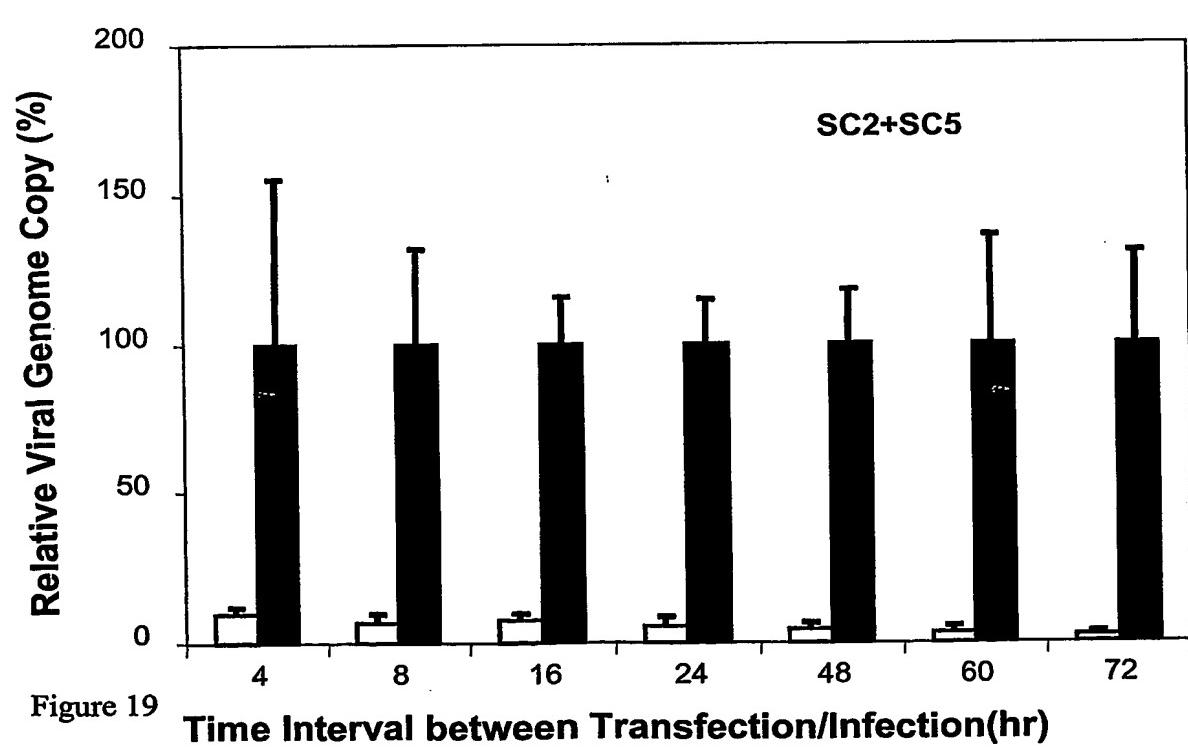


Figure 19

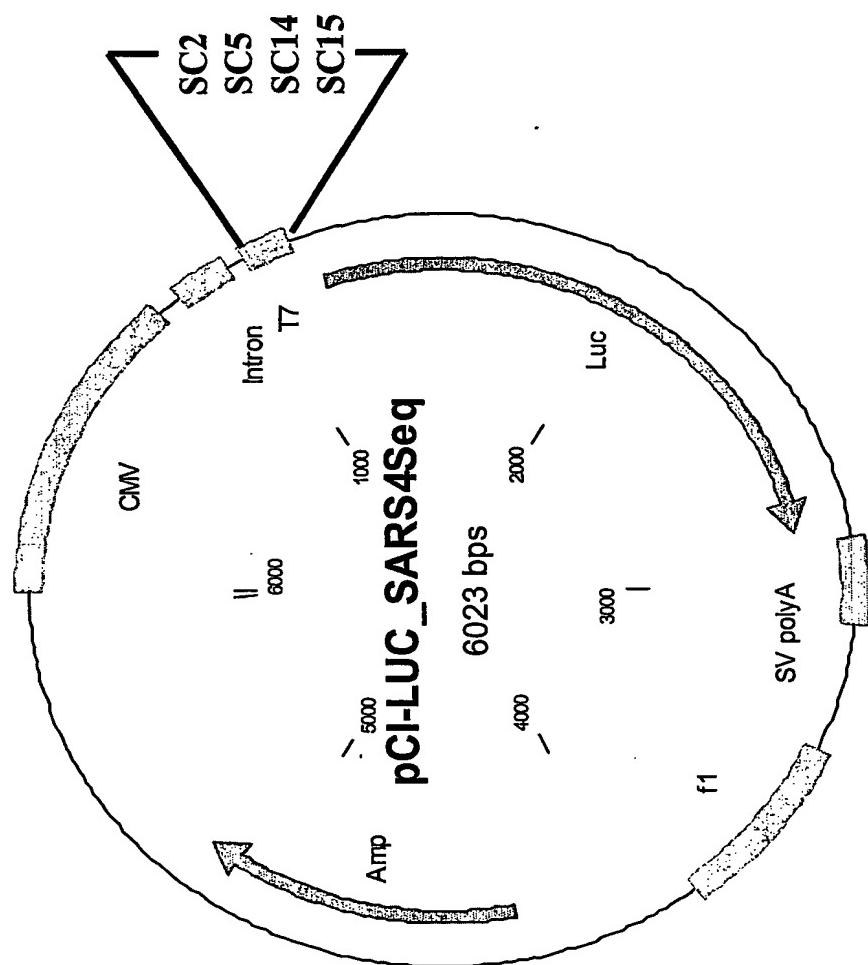


Figure 20

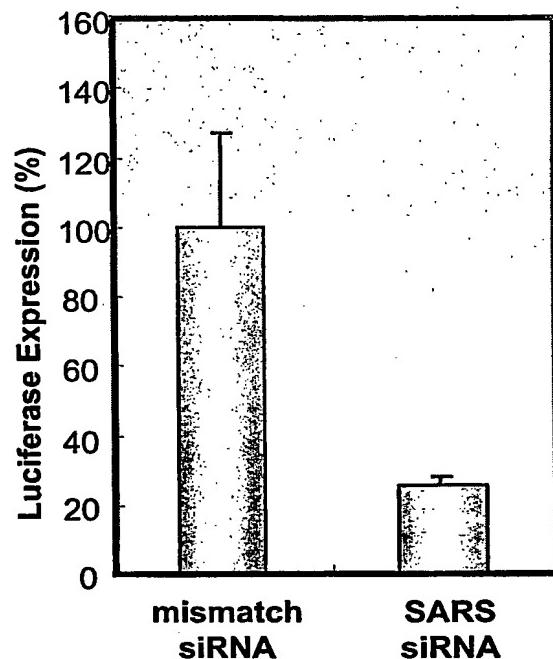
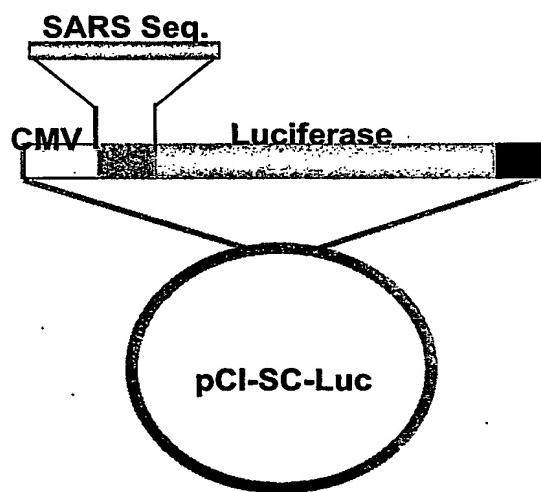
Intratracheal delivery of siRNA knocking down SARS sequence

Figure 21

Figure 22

| Pathohistology Examination | | | |
|----------------------------|------------|---------------------|-----|
| Group No. | Monkey No. | Pathological Status | Sum |
| I | 151 | + | 6+ |
| I | 130 | ++ | |
| I | 203 | ++ | |
| I | 138 | + | |
| II | 166 | + | 7+ |
| II | 2 | ++ | |
| II | 77 | ++ | |
| II | 21 | ++ | |
| III | 210 | +++ | 9+ |
| III | 15 | ++ | |
| III | 214 | +++ | |
| III | 23 | + | |
| IV | 167 | + | 9+ |
| IV | 202 | ++++ | |
| IV | 163 | + | |
| IV | 208 | ++ | |
| V | 205 | + | 9+ |
| V | 206 | ++ | |
| V | 121 | +++ | |
| V | 7 | +++ | |

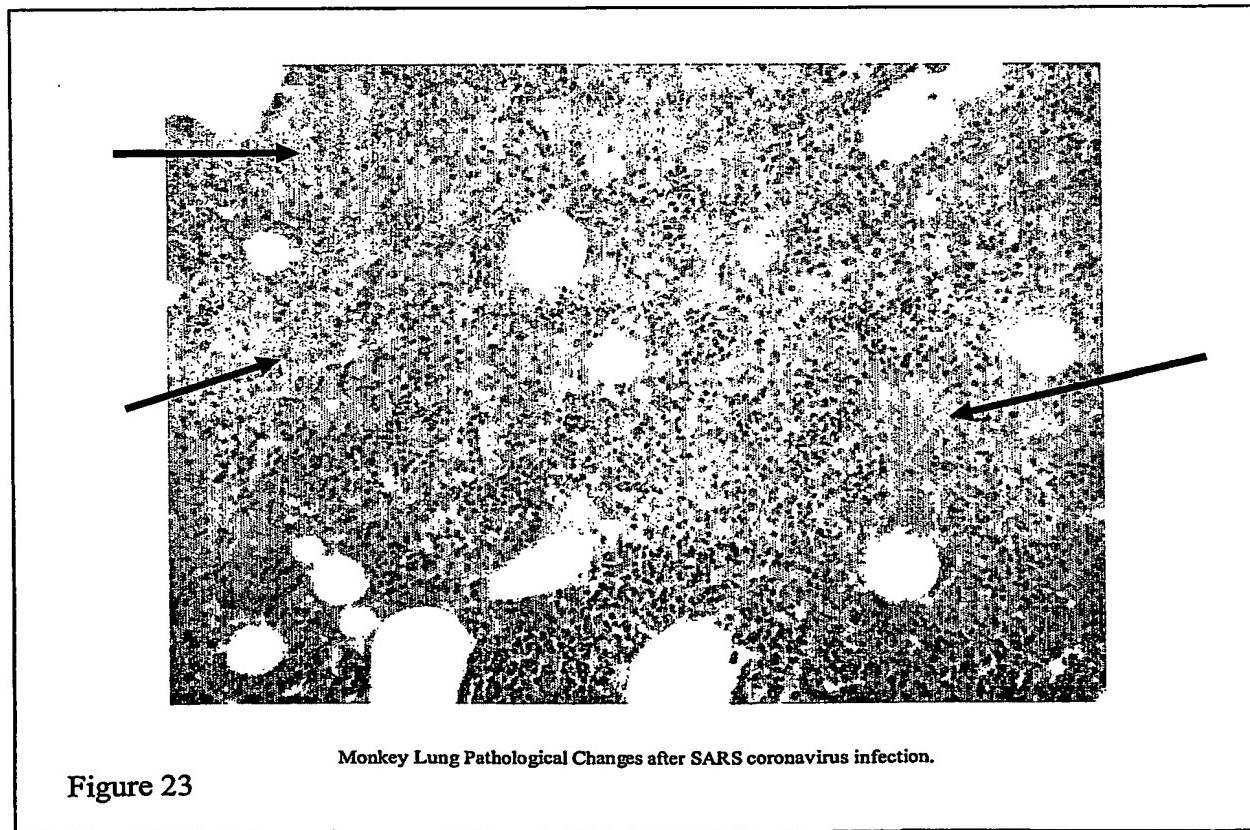


Figure 23